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WHAT IS CLAIMED IS:

- 1. Cover for sealing a container comprising:
 - at least one bottom layer and at least one top layer arranged over said bottom layer; and
- the bottom and second layer each comprising a structure to form a recloseable aperture of the cover and allowing to access through the layers into the container.
 - 2. The cover of claim 1, wherein at least one of the said bottom layer and top layer comprises at least one of: a recloseable aperture, a flap, and a butterfly valve.
 - 3. The cover of claim 2, wherein said flap or said butterfly valve is formed by a U-shaped cut in the layer.
 - 4. The cover of claim 3, wherein a bending fold axis of said flap or butterfly valve of the at least one bottom layer is not arranged over a bending fold axis of said flap or butterfly valve of the at least one top layer.
 - 5. The cover of claim 1, wherein at least one of the at least one bottom and the at least one top layer comprises a cross-shaped cut thereby forming a butterfly valve.
- 6. The cover of claim 5, wherein the cross-shaped cut of the at least one top layer is arranged with an offset of approximately 45° to the cross-shaped cut of the at least one bottom layer.
 - 7. The cover of claim 1, wherein at least the top layer comprises a diaphragm-like recloseable aperture.
- 8. The cover of claim 1, wherein the bottom and top layer are glued together by polymerization.

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- 9. The cover of claim 1, wherein the bottom layer is laminated at least partly onto the top layer.
- 10. The cover of claim 1, further comprising a movable third layer arranged between the at least one bottom layer and the at least one top layer for closing an aperture in the bottom and second layer.
- 11. The cover of claim 10, wherein said third layer is structured to form a sliding valve.
- 12. The cover of claim 10, wherein the third layer comprises means for moving the third layer for closing the aperture of the cover.
- 13. The cover of claim 10, wherein the cover comprises a seal arranged at least between the third movable layer and the at least one bottom layer in the area of the recloseable aperture.
 - 14. The cover of claim 1, wherein the seal comprises at least one of the following materials: Teflon or one of its co-polymers, Silicone, PTFE.
- 15. The cover of claim 1, wherein the recloseable aperture is ring-shaped, elliptical or approximately rectangular.
 - 16. The cover of claim 1, wherein at least one layer comprises polyimide or polyimide or polyester or liquid crystal polymer.
- 17. The cover of claim 1, wherein the top layer comprises an electrically conductive coating layer.
 - 18. The cover of claim 1, wherein the top layer comprises a metal coating layer.
 - 19. The cover of claim 1, wherein the cover thickness is smaller than 400 μm.

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- 20. The cover of claim 1, wherein the recloseable aperture of the cover comprises an area smaller than 60 mm².
- 21. The cover of claim 1, comprising a plurality of recloseable apertures for sealing a well plate, said well plate comprising a plurality of containers for a liquid.
- 22. The cover of claim 21, wherein the cover is glued onto the well plate.
- 23 . The cover of claim 21, wherein the cover is welded onto the well plate.
- 24. The cover of claim 21, wherein the bottom layer of the cover is airtight connected to the well plate material around a container of the well plate.
- 25. A method of retrieving or filling a liquid in a well plate having a plurality of containers for liquids, the method comprising the steps of:
 - providing the well plate with a cover arranged on top of the well plate, said cover comprising a plurality of recloseable apertures sealing the containers;
 - opening the recloseable aperture of at least one container of the well plate;
 - retrieving or filling the liquid from the opened container or into the opened container; and
- 20 closing the opened aperture after retrievement of filling.
 - 26. A cover for sealing a container, comprising:
 - at least two layers arranged over each other for sealing the container and being structured to form a recloseable aperture of the cover; and wherein each layer comprises a structure allowing to access, when the

structures overlap, through the layers into the container.